

FILE 'HOME' ENTERED AT 16:46:56 ON 18 MAR 2007

=> aplus

APLUS IS NOT A RECOGNIZED COMMAND

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=> file caplus

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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 16:47:05 ON 18 MAR 2007

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FILE COVERS 1907 - 18 Mar 2007 VOL 146 ISS 13

FILE LAST UPDATED: 16 Mar 2007 (20070316/ED)

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=>

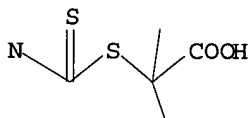
Uploading C:\Program Files\Stnexp\Queries\679.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 16:47:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 30 TO ITERATE

100.0% PROCESSED 30 ITERATIONS
SEARCH TIME: 00.00.01

11 ANSWERS

L2 11 SEA SSS FUL L1

L3 22 L2

=> s l3 and py<2000
20016871 PY<2000

L4 10 L3 AND PY<2000

=> d 1-10, ibib abs hitstr

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1968:434892 CAPLUS

DOCUMENT NUMBER: 69:34892

TITLE: Advancements in plant pharmacology of dithiocarbamates

AUTHOR(S): Ueyama, Akinori

CORPORATE SOURCE: Kyoto Univ., Kyoto, Japan

SOURCE: Bochu Kagaku (1967), 32(1), 11-19

From: CZ 1968, (17), Abstr. No. 1504

CODEN: BOCKAF; ISSN: 0006-5420

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB Nineteen carbamate derivs. were tested with regard to their auxin activity, antiauxin activity, and chemotherapeutic activity in plants. The following N,N-dimethyl-dithiocarbamates were tested (auxin activity, antiauxin activity, anti-Cladosporium cucumerinum activity given): S-carboxymethyl +, -, +; S-(1-carboxyethyl) +, -, -; S-(1-methyl-1-carboxyethyl) -, +, +; S-(ethoxycarbenthoxymethyl) -, +, +; S-(carbethoxymethyl) +, -, +; S-(1-methyl-1-carbethoxyethyl) -, +, +; S-(carbethoxymethyl) +, -, +; S-(1-methyl-1-carbamoylethyl) -, +, +; S-(N-methylcarbamoylmethyl) -, +, +; S,S-bis(N,N-dimethylthiocarbamoyl)dimercaptoacetic acid -, +, +; O-carboxymethyl N,N-dimethylthiocarbamate +, -, -; S-(carboxymethyl) N,N-diethyldithiocarbamate -, -, -; S-(carboxymethyl) N,N-dibutyldithiocarbamate -, -, -; S-(carboxymethyl)dithiocarboxylic acid Δ2-pyrrolinide -, +, +; S-(1-methyl-1-carboxyethyl)dithiocarboxylic acid Δ3-pyrrolinide -, +, -; Na dithiocarboxylic acid pyrrolidide -, +, +; S-(carboxymethyl)dithiocarboxylic acid pyrrolidide -, +, +; S-(carboxymethyl)dithiocarboxylic acid piperidide -, +, +.

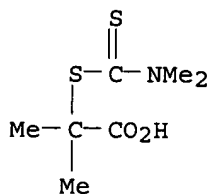
IT 20940-21-0

RL: BIOL (Biological study)

(auxin and antiauxin and fungicidal activity of)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1964:421169 CAPLUS
DOCUMENT NUMBER: 61:21169
ORIGINAL REFERENCE NO.: 61:3627h,3628b
TITLE: Growth-regulating effects of amino acids and
dithiocarbamic acid derivatives and their possible
relation with chemotherapeutic activity
AUTHOR(S): van Andel, O. M.
CORPORATE SOURCE: Lab. Phytopathol., Wageningen, Neth.
SOURCE: Phytopathologische Zeitschrift (1962),
45(1), 66-80
From: CZ 1963(7), 2514.
CODEN: PHYZA3; ISSN: 0031-9481

DOCUMENT TYPE: Journal

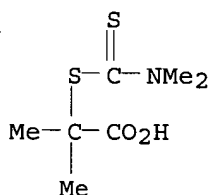
LANGUAGE: English

AB Dithiocarbamic acid derivs. were tested for their auxin activities
(epinasty test, 1st sign), anti-auxin activities (cucumber root growth
test, 2nd sign), and chemotherapeutic activity (against Cladosporium
cucumerium in cucumbers, 3rd sign). The dithiocarbamic acid derivs.
contain both auxins and anti-auxins. Their action depends on substitution
of H atoms at α -C- atoms and those of N-Me groups. On the other
hand, amino acids promote growth during the 1st 24 h.

IT 20940-21-0, Propionic acid, 2-mercapto-2-methyl-,
dimethyldithiocarbamate, (-)-
(plant regulator activity of)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA
INDEX NAME)



L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

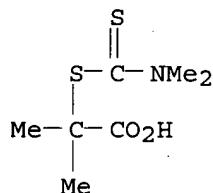
ACCESSION NUMBER: 1962:444790 CAPLUS
DOCUMENT NUMBER: 57:44790
ORIGINAL REFERENCE NO.: 57:8966a-b
TITLE: Fungicidal compounds
INVENTOR(S): van der Kerk, Gerrit J. M.
PATENT ASSIGNEE(S): N. V. Philips' Gloeilampenfabrieken
SOURCE: 4 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 96797		19610116	NL	19550330 <--
PRIORITY APPLN. INFO.:			NL	19550330

AB Fungicidal compds. with systemic activity are the dithiocarbamates of the
formula $\text{R}_1\text{R}_2\text{NC}(\text{S})\text{YR}_3\text{C}(\text{O})\text{X}$ or the formula $\text{R}_4 [\text{NR}_2\text{C}(\text{S})\text{YR}_3\text{C}(\text{O})\text{X}]_2$, in which
 R_1 and R_2 are H or alkyl, or may form a 5- or 6-membered ring with N; R_3
is alkylene, aralkylene or arylene; $\text{R}_4 = \text{R}_3$, or may form a ring with the
 NR_2 groups; X is NH_2 , OH, ONa, or O-alkyl, O-aryl or O-aralkyl; and Y is O
or S. Examples are S-1-carboxypropyl N,N-dimethyldithiocarbamate, the

corresponding carboxymethyl, or 1-carboxyethyl derivs. The active compds. are applied prophylactically or on infected plants in the form of mixts. with solid or fluid carriers in usual dilns.

IT 20940-21-0, Propionic acid, 2-mercapto-2-methyl-,
dimethyldithiocarbamate
(fungicide)
RN 20940-21-0 CAPLUS
CN Propanoic acid, 2-[[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA
INDEX NAME)



L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1962:55547 CAPLUS

DOCUMENT NUMBER: 56:55547

ORIGINAL REFERENCE NO.: 56:10620c-e

TITLE: Plant growth-regulating activity of S-carlsoxymethyl
N, N-dimethyldithiocarbamate and related compounds

AUTHOR(S): Pluijgers, C. W.; van der Kerk, G. J. M.

CORPORATE SOURCE: Inst. Org. Chem. T.N.O., Utrecht, Neth.

SOURCE: Recueil des Travaux Chimiques des Pays-Bas (1961), 80, 1089-1100

CODEN: RTCPA3; ISSN: 0165-0513

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The growth-regulating activity of Scarboxymethyl N,N-dimethyldithiocarbamate (I) and 29 structurally related compds. on tomato was determined. The relation between structure and activity is discussed. Activity was associated with the electronic configuration of the mol., with a distinct degree of double bond character of the N-C bond. In addition, however, steric factors seemed to be of decisive significance for the presence or absence of growth-regulating activity. Methods for the synthesis of I and the related compds. are also given.

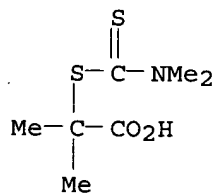
IT 20940-21-0P, Propionic acid, 2-mercapto-2-methyl-,
dimethyldithiocarbamate

RL: PREP (Preparation)

(preparation and plant regulating activity of)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA
INDEX NAME)

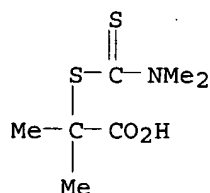


L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

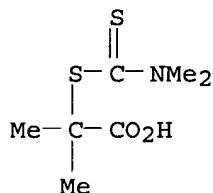
ACCESSION NUMBER: 1956:71219 CAPLUS

DOCUMENT NUMBER: 50:71219

ORIGINAL REFERENCE NO.: 50:13354c-f
 TITLE: New views and new results in the field of crop protection
 AUTHOR(S): Oort, A. J. P.
 CORPORATE SOURCE: Fac. agron., Wageningen, Neth.
 SOURCE: Phytiatric-Phytopharmacie (1955) 105-14
 CODEN: PHPHA6; ISSN: 0031-8876
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Influence of modern technical equipment on plant-disease occurrence and control is discussed. Artificial air-cooled storage chambers are now used in the Netherlands for improved storage of potatoes, while artificial hot-air drying preserves onions from fungus after harvesting. Oppositely, cold storage has increased disease incidence in apples. Preliminary findings with systemic fungicides are reported. S-carboxymethyl-N,N-dithiocarbamate in 10 p.p.m. concentration checked cucumber scab, while 250 p.p.m. concentration was phytotoxic; the compound also showed growth-promoting activity. S-(1-Carboxy-1-methylethyl)-N,N-dimethyldithiocarbamate had about the same chemotherapeutic activity but no growth-promoting effect. Hence, it was concluded that diffusibility in the tissues was not related to growth promotion. Seed disinfection with solns. having systemic activity (rimocidine, etc.) was effective in ascochyta infection in peas, etc., but it was not practicable to soak seeds in liquid before sowing.
 IT 20940-21-0, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
 (as plant-growth regulator)
 RN 20940-21-0 CAPLUS
 CN Propanoic acid, 2-[[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1956:1964 CAPLUS
 DOCUMENT NUMBER: 50:1964
 ORIGINAL REFERENCE NO.: 50:442g-h
 TITLE: Seasonal changes of vitamin C contents of various plants
 AUTHOR(S): Zemlyanukhin, A. A.
 CORPORATE SOURCE: State Univ., Voronezh
 SOURCE: Agrobiologiya (1955), (No. 2), 136-7
 CODEN: AGRBAU; ISSN: 0365-2696
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB Ascorbic acid was determined in the leaves and stems of beets, cabbages, and cucumbers. The ascorbic acid content was found to vary not only with the position on the plant and with its stage of growth, but also with environmental factors such as sunlight, temperature, moisture, and mineral content.
 IT 20940-21-0, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
 (systemic fungicidal activity of)
 RN 20940-21-0 CAPLUS
 CN Propanoic acid, 2-[[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

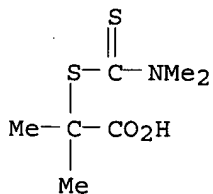
ACCESSION NUMBER: 1956:1963 CAPLUS
 DOCUMENT NUMBER: 50:1963
 ORIGINAL REFERENCE NO.: 50:442f-g
 TITLE: Investigations on plant chemotherapy
 AUTHOR(S): van Raalte, M. H.; Sijpesteijn, A. Kaars; van der Kerk, G. J. M.; Oort, A. J. P.; Pluygers, C. W.
 CORPORATE SOURCE: Lab. Phytopathol., Wageningen, Neth.
 SOURCE: Mededel. Landbouwhogeschool Opzoekinsstas. Staat Gent (1955), 20, 543-55
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Theoretical considerations regarding structure and fungicidal effect led to the synthesis of compds. with the general formula $\text{Me}_2\text{NC}(:\text{S})\text{X}$, where X = alkyl or alkylthio. Some of these compds. applied to roots of cucumber plants render the tops less susceptible to infection with *Cladosporium cucumerinum*. This is especially the case with $\text{Me}_2\text{NC}(:\text{S})\text{SCH}_2\text{CO}_2\text{H}$. The same influence is found with the related $\text{Me}_2\text{NC}(:\text{S})\text{Pr}$.

IT 20940-21-0, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
 (systemic fungicidal activity of)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



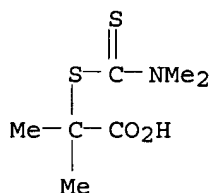
L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1955:86468 CAPLUS
 DOCUMENT NUMBER: 49:86468
 ORIGINAL REFERENCE NO.: 49:16304g-i
 TITLE: A new type of plant-growth-regulating substances
 AUTHOR(S): van der Kerk, G. J. M.; van Raalte, M. H.; Sijpesteijn, A. Kaars; van der Veen, R.
 CORPORATE SOURCE: Inst. Org. Chem. T. N. O., Utrecht, Neth.
 SOURCE: Nature (London, United Kingdom) (1955), 176, 308-10
 CODEN: NATUAS; ISSN: 0028-0836
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

AB Carboxymethyl dimethyldithiocarbamate (I) produced growth responses similar to those brought about by synthetic growth substances when applied to tomato, pea, and cucumber plants. I was also active when applied to

the soil of potted plants and initiated roots of tomato and Phaseolus. Several derivs. of I exhibited similar properties.

IT 20940-21-0, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
(as plant-growth regulator)
RN 20940-21-0 CAPLUS
CN Propanoic acid, 2-[[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



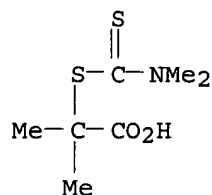
L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1954:3420 CAPLUS
DOCUMENT NUMBER: 48:3420
ORIGINAL REFERENCE NO.: 48:597e-i,598a
TITLE: N-Disubstituted derivatives of dithiocarbamic acid
AUTHOR(S): Nachmias, Germaine
SOURCE: Ann. chim. (Paris) (1952), 7, 584-631
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB Derivs. of AX, where X = S2CNMe2, S2CNC5H10, and S2CR (R = morpholino) were studied. The compds. with A = HOCH2CH2, MeCOCH2, and NCCH2 were prepared from the NaX with HOCH2CH2Cl, MeCOCH2Cl, and NCCH2Cl, resp. The HO2CCH2X, after esterification, gave the amides, hydrazides, and phenylhydrazides. The following AX are listed: A, X = S2CNMe2 M.p., S2CNC5H10 M.p., S2CR M.p.; HOCH2CH2, (b. 162°), 18, 47; PhNHCO2CH2CH2, 103, 92, 152; p-O2NC6H4CO2CH2CH2, 141, 91, 117; c-HO2CC6H4CO2CH2CH2, 109, 125, 128; HO2CCH2CH2CO2CH2CH2, 80, 56, 97; cis-HO2CCH:CHCO2CH2CH2, , , 100; MeCOCH2, 73, 62, 94; NH2N:CMech2, 127, 84, 98; 2,4-(O2N)2C6H4NHN:CMech2, 146, 135, 147; NH2CONHN:CMech2, 2171, 183, 186; NH2CSNHN:CMech2, 176, 175, 186; HON:CMech2, 101, 110, 102; NCCH2, 73, 74, 103; HCl.NH:C(OEt)CH2, 140, 190, 1391; NH:C(OEt)CH2, 58, 54, 79; HON:C(NH2)CH2, 162, 77, 156; p-O2NC6H4CO2N:C(NH2)CH2, 195, , ; HO2CCH2, , 143, 162; MeO2CCH2, 48, 59.5, 57; EtO2CCH2, 60, 68, 70; H2NCOCH2, 125, 143, 155; NH2NHCOCH2, 134, 141, 133; PhNHNHCOCH2, 295, 185, 84; 1Decompn.; The following addnl. AS2CNMe2 are also listed (A and m.p. given): AcON:CMech2, 191°; BzON:CMech2, 167°; HON:C(NHCONHPh)CH2, 139°; HO2CCHMe, 135°; HO2CCMe2, 137°; Pro2CCH2, 44°; MeO2CCHMe, 38.5°; EtO2CCHMe, 59.5°; MeNHCOCH2, 115°; PhCH2NHCOCH2, 112°; H2NCOCHMe, 127°; MeNHCOCHMe, 95°; H2NCOCMe2, 69°; MeNHCOCMe2, 61°; (NHCOCH2), m. 278°; Me2C:NNHCOCH2, m. 159-60°; and PhCH2C(CO2H):NNHCOCH2, m. 63°.

IT 20940-21-0P, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate
RL: PREP (Preparation)
(preparation of)
RN 20940-21-0 CAPLUS
CN Propanoic acid, 2-[[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1952:24619 CAPLUS

DOCUMENT NUMBER: 46:24619

ORIGINAL REFERENCE NO.: 46:4175g-i

TITLE: Chemical structure and antibacterial action in vitro of a series of N-substituted dithiocarbamylic acid esters

AUTHOR(S): Quevauviller, A.; Chabrier, P.; Nachmias, G.; Maillard, G.

CORPORATE SOURCE: Faculte pharm., Paris

SOURCE: Annales Pharmaceutiques Francaises (1951), 9, 638-41

CODEN: APFRAD; ISSN: 0003-4509

DOCUMENT TYPE: Journal

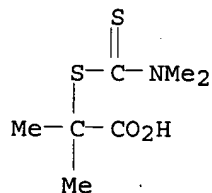
LANGUAGE: Unavailable

AB In the general formula RR1NCSSR2 the N is substituted by Me2, O(C2H4)2, or (CH2)5, and R2 is C2H4OH, CH2COMe, CH2CN, CH2CO2H, CHMeCO2H, CMe2CO2H, C2H4NMe2, and C2H4NMe3X, X being halogen. The esters were tested with Staphylococcus pyogenes aureus, Escherichia coli, Bacillus mesentericus, and Pseudomonas aeruginosa. If the Na salts of the acids had strongly antiseptic qualities, the activity of the esters varied widely depending on the nature of R2. The activity increased in the sequence: morpholine, Me2NH, piperidine.

IT 20940-21-0, Propionic acid, 2-mercapto-2-methyl-, dimethyldithiocarbamate (as bactericide)

RN 20940-21-0 CAPLUS

CN Propanoic acid, 2-[[[(dimethylamino)thioxomethyl]thio]-2-methyl- (9CI) (CA INDEX NAME)



Refine Search

Search Results -

Terms	Documents
L4 and (558/\$ or 525/\$)	15

Database:

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 US Patents Full-Text Database
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 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L5

Search History

DATE: Sunday, March 18, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

Set Name Query
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Hit Count Set Name
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<u>L5</u>	L4 and (558/\$ or 525/\$)	15	<u>L5</u>
<u>L4</u>	(diene or vinyl monomer) adj9 dithiocarbamat\$9	45	<u>L4</u>
<u>L3</u>	(diene or vinyl monomer) same dithiocarbamat\$9	630	<u>L3</u>
<u>L2</u>	(diene or vinyl monomer) and dithiocarbamat\$9	4497	<u>L2</u>
<u>L1</u>	(diene or vinyl monomer)	181686	<u>L1</u>

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Search Results - Record(s) 1 through 10 of 15 returned.

☐ 1. Document ID: US 20040073056 A1

L5: Entry 1 of 15

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040073056

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040073056 A1

TITLE: S-(alpha, alpha'-disubstituted-alpha"-acetic acid) substituted dithiocarbonate derivatives for controlled radical polymerizations, process and polymers made therefrom

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lai, John Ta-Yuan	Broadview Heights	OH	US

US-CL-CURRENT: 558/235

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20040024132 A1

L5: Entry 2 of 15

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040024132

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040024132 A1

TITLE: Polymerization process with living characteristics and polymers made therefrom

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chiefari, John	Victoria		AU
Mayadunne, Roshan Tyrrel	Victoria		AU
Moad, Graeme	Victoria		AU
Rizzardo, Ezio	Victoria		AU
Thang, San Hoa	Victoria		AU

US-CL-CURRENT: 525/261; 525/244, 525/260, 526/193, 526/204, 526/217, 526/219.6,
526/222, 526/262, 526/288

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20030120101 A1

L5: Entry 3 of 15

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030120101

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030120101 A1

TITLE: S-(alpha, alpha'-disubstituted-alpha' '-acetic acid) substituted
dithiocarbonate derivatives for controlled radical polymerizations, process and
polymers made therefrom

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lai, John Ta-Yuan	Broadview Heights	OH	US

US-CL-CURRENT: 558/232

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 6747111 B2

L5: Entry 4 of 15

File: USPT

Jun 8, 2004

US-PAT-NO: 6747111

DOCUMENT-IDENTIFIER: US 6747111 B2

TITLE: Polymerization process with living characteristics and polymers made
therefrom

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 6642318 B1

L5: Entry 5 of 15

File: USPT

Nov 4, 2003

US-PAT-NO: 6642318

DOCUMENT-IDENTIFIER: US 6642318 B1

**** See image for Certificate of Correction ****

TITLE: Polymerization process with living characteristics and polymers made
therefrom

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 6111020 A

L5: Entry 6 of 15

File: USPT

Aug 29, 2000

US-PAT-NO: 6111020

DOCUMENT-IDENTIFIER: US 6111020 A

TITLE: Crosslinked foams from blends of ethylene vinyl acetate and ethylene-styrene
interpolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 5977271 A

L5: Entry 7 of 15

File: USPT

Nov 2, 1999

US-PAT-NO: 5977271

DOCUMENT-IDENTIFIER: US 5977271 A

TITLE: Process for preparing thermoset interpolymers and foams

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 5869591 A

L5: Entry 8 of 15

File: USPT

Feb 9, 1999

US-PAT-NO: 5869591

DOCUMENT-IDENTIFIER: US 5869591 A

TITLE: Thermoset interpolymers and foams

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 5569719 A

L5: Entry 9 of 15

File: USPT

Oct 29, 1996

US-PAT-NO: 5569719

DOCUMENT-IDENTIFIER: US 5569719 A

TITLE: Vulcanizable partially hydrogenated nitrile rubber composition containing
partially hydrogenated unsaturated nitrile-conjugated diene copolymer sulfur
vulcanizer and tellurium dithiocarbamate vulcanization promotor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 4873291 A

L5: Entry 10 of 15

File: USPT

Oct 10, 1989

US-PAT-NO: 4873291

DOCUMENT-IDENTIFIER: US 4873291 A

TITLE: Rubber vulcanization system with triazine compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 11. Document ID: US 4808666 A

L5: Entry 11 of 15

File: USPT

Feb 28, 1989

US-PAT-NO: 4808666

DOCUMENT-IDENTIFIER: US 4808666 A

TITLE: Rubber vulcanization system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 4755320 A

L5: Entry 12 of 15

File: USPT

Jul 5, 1988

US-PAT-NO: 4755320

DOCUMENT-IDENTIFIER: US 4755320 A

**** See image for Certificate of Correction ****

TITLE: Rubber vulcanization system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 4652616 A

L5: Entry 13 of 15

File: USPT

Mar 24, 1987

US-PAT-NO: 4652616

DOCUMENT-IDENTIFIER: US 4652616 A

TITLE: Chlorinated ethylene copolymer resins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 4502972 A

L5: Entry 14 of 15

File: USPT

Mar 5, 1985

US-PAT-NO: 4502972

DOCUMENT-IDENTIFIER: US 4502972 A

TITLE: Lubricating oil composition containing a dialkyl dithiocarbamate-modified EPDM viscosity index improver

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 15. Document ID: US 4405756 A

L5: Entry 15 of 15

File: USPT

Sep 20, 1983

US-PAT-NO: 4405756

DOCUMENT-IDENTIFIER: US 4405756 A

TITLE: Co-vulcanizable rubber composition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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